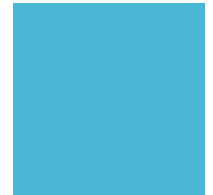




UNINTENTIONAL RADIOLOGICAL SUBSTANCE RELEASE



An Unintentional Radiological Substance Release hazard occurs when radiation is accidentally discharged into the environment. Unintentional Radiological Substance Release may occur as the result of a nuclear power plant accident, a transportation accident, or a workplace incident involving radioactive materials.

HAS IT HAPPENED LOCALLY?

There have been zero Unintentional Radiological Substance Release hazard events in Howard County during the reviewed time period (1996-2013).

WHAT IS THE ONGOING RISK?

There is an expected **<1-10% Annual Likelihood** of an Unintentional Radiological Substance Release hazard in Howard County. In the most likely Unintentional Radiological Substance Release hazard scenario, the **Total Impact is considered Limited**. In the worst-case scenario, the **Total Impact is considered Critical**.

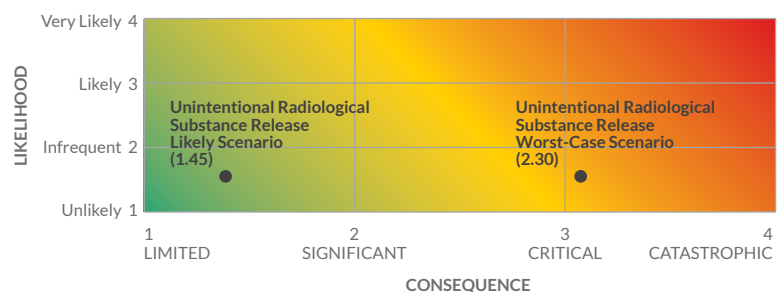
DID YOU KNOW?

- Workplace radiation incidents may occur in health care facilities, research institutions, and industrial operations if radiation sources are not stored correctly, safety controls malfunction, or safety procedures are not followed.
- Following a small release of radiological substances, it can take up to 12 hours to remove the hazard and decontaminate the environment.
- Peach Bottom Atomic Power Station in southern Pennsylvania and Calvert Cliffs Nuclear Power Plant in Calvert County are both close enough to impact Howard County in the event of a catastrophic failure.

FOR MORE INFORMATION:

- Howard County Hazard Identification and Risk Assessment readyhoco.com/hazards
- Centers for Disease Control and Prevention emergency.cdc.gov/radiation/
- Environmental Protection Agency epa.gov/radiation

RISK MATRIX



LOCAL RISK OVERVIEW

LOCAL RISK OVERVIEW		
Future Likelihood	Unlikely-Infrequent < 1-10% chance of annual occurrence	
Impact	MOST-LIKELY	WORST-CASE
	Limited	Critical
Risk Score	1.45	2.30
Risk Ranking (High to Low)	Ranked #15 of 16 man-made hazards.	

UNINTENTIONAL RADIOLOGICAL SUBSTANCE RELEASE IMPACT

Where no Worst-Case bar is visible, Worst-Case impact is equivalent to Likely Impact

